

# CORNELL UNIVERSITY LIBRARY

## LIBRARIAN'S REPORT

(President's Report, Appendix XV. pp. CVII-CXLVI.)

1900--1901

To the President of the University:

SIR:—I have the honor to submit herewith my annual report on the University Library for the year 1900–1901.

The following table shows the additions made, during the year ending July 31st, 1901, to the several collections forming the University Library, and the total present extent of the Library:

	ADDITIONS, 1900–1901		PRESENT EXTENT	
	Vols.	Pams.	Vols.	Pams.
General Library .....	10,282	2,000	218,604	40,400
Law Library .....	847	-----	29,435	-----
Flower Veterinary Library .....	327	-----	1,793	-----
Totals .....	11,456	2,000	249,832	40,400

Of the accessions to the general library, numbering 10,282 volumes, 3,287 volumes, or nearly one third of the accessions, were received as gifts; 154 volumes were additions to the various seminary collections, and 207 volumes were additions to the library of the State College of Forestry. Of the 327 volumes added to the Flower Veterinary Library 114 volumes were the gift of Dr. W. L. Zuill.

The most important event of the year in the history of the Library is the gift to the Flower Veterinary Library of an endowment fund of ten thousand dollars, presented by Mrs. Roswell P. Flower in April, 1901, the income of which is to be used for the increase of the veterinary library established by her husband in 1897. By this generous gift permanent provision is made for the continued growth and usefulness of the library. Another gift of great value and interest, though of a different character, is that which was recently received by the Library as a bequest from the late Moses Coit Tyler, comprising a



# CORNELL UNIVERSITY LIBRARY

## LIBRARIAN'S REPORT

(President's Report, Appendix XV. pp. CVII-CXLVI.)

1900--1901

To the President of the University:

SIR :—I have the honor to submit herewith my annual report on the University Library for the year 1900-1901.

The following table shows the additions made, during the year ending July 31st, 1901, to the several collections forming the University Library, and the total present extent of the Library :

	ADDITIONS, 1900-1901		PRESENT EXTENT	
	Vols.	Pams.	Vols.	Pams.
General Library .....	10,282	2,000	218,604	40,400
Law Library .....	847	-----	29,435	-----
Flower Veterinary Library .....	327	-----	1,793	-----
Totals .....	11,456	2,000	249,832	40,400

Of the accessions to the general library, numbering 10,282 volumes, 3,287 volumes, or nearly one third of the accessions, were received as gifts; 154 volumes were additions to the various seminary collections, and 207 volumes were additions to the library of the State College of Forestry. Of the 327 volumes added to the Flower Veterinary Library 114 volumes were the gift of Dr. W. L. Zuill.

The most important event of the year in the history of the Library is the gift to the Flower Veterinary Library of an endowment fund of ten thousand dollars, presented by Mrs. Roswell P. Flower in April, 1901, the income of which is to be used for the increase of the veterinary library established by her husband in 1897. By this generous gift permanent provision is made for the continued growth and usefulness of the library. Another gift of great value and interest, though of a different character, is that which was recently received by the Library as a bequest from the late Moses Coit Tyler, comprising a

complete set of annotated copies of his published works, with sundry volumes of printed and manuscript discussions and criticisms of the same, a collection of his correspondence, of great interest, arranged chronologically and covering the period from 1854 to 1900, with other volumes of manuscripts, etc., collected by him, numbering in all thirty-four volumes. In accordance with the instructions of Professor Tyler which accompanied the bequest, the case containing this collection is to be kept closed against all inspection for at least five or ten years. Among the more important and noteworthy gifts may also be mentioned 550 volumes added to the White Historical Library as the gift of ex-President White, including several important sets of historical serials and a large collection of contemporary pamphlets on the French Revolution; from Theodore Stanton, of the class of 1876, we have received during the year 462 volumes, consisting of additions to the Tauchnitz collection and works of French literature; from Professor J. M. Hart 63 volumes including a number of rare and costly works in the domain of English philology; from Willard Fiske 54 volumes, chiefly additions to the Dante collection; from S. P. Avery of New York several interesting documents in French history; from Mrs. A. L. Mulford a considerable number of the publications of the Society of Friends; from the Toronto Public Library 120 volumes of Canadian public documents. To yourself and to Professors Burr, Caldwell, Crane, Hull, and Lee the Library is also indebted for many valuable gifts. From the National and State Governments the usual supply of public documents has been received. The British and Canadian Patent Offices continue to present to the Library their valuable publications, and to Sir J. G. Bourinot we are indebted for the Sessional Papers of the Dominion of Canada. For the gifts here noted and for all the numerous minor gifts received during the year prompt acknowledgement of our thanks has been made to the respective donors.

The purchases from the income of the Sage endowment fund include many costly and otherwise important works, such as the facsimile of the Marcian Codex of Homer's *Iliad*, Brydges' *Censura Literaria*, Bullen's Collection of Old English Plays, Renouvier's *Critique Philosophique*, Sabatier's collection of ancient Latin versions of the Bible, the works of Rembrandt, the *Bulletin de la Société de l'histoire du protestantisme français*, the English translation of the Talmud, the publications of the Calvin Translation Society, *Mélanges d'archéologie et d'histoire*, *Bijdragen voor Vaderlandsche Geschiedenis*, *Oeuvres de Borghesi*, *Reliefs der Traianssäule*, Dieulafoy's *Acropolis of Susa*, Paoletti's *Architecture of the Renaissance* in



Venice, Forbes' *Salictum Woburnense*, Sowerby's *English Fungi*, Drury's *Exotic Entomology*, Meigen's *European Diptera*, Becker's *Arachnides de Belgique*, *Revue générale des Sciences*, Belgrand's *Travaux souterrains de Paris*; complete sets of the *Bulletin du Congrès international des chemins de fer*, *Transactions of the North of England Institute of Mining Engineers*, of the *Federated Institute of Mining Engineers*, of the *Institute of Civil Engineers of Ireland*, of the *Surveyors' Institution*, of the *Geological Society of Cornwall*, the *Palaeontological Memoirs of the Geological Society of France*, the *Archiv für Ophthalmologie*, *Beiträge zur pathologische Anatomie*, Young's *Annals of Agriculture*, a set of the *Dublin Almanacs and Directories from 1789 to 1884*, the publications of the *Danish General Staff*, the publications of the *Bibliographical Society of London*, and a facsimile of a MS. map of New York in 1782. Among the important sets which have been completed are the *Art Journal*, *Bibliographie de Belgique*, *Geological Magazine*, *Jersey Herd Book*, *Journal de l'Ecole polytechnique*, *Maryland Archives*, and the *Transactions of the Bavarian Academy*.

Dr. A. C. White, assistant librarian in charge of accessions and classification, reports that the accessions of the year have been shelved promptly, though the limit of available space in some parts of the Library will be reached in the near future. Experience has demonstrated the necessity of full shelf lists for serial publications, and the writing of these lists is proceeding as time permits. This opportunity has been taken to make some slight changes in the call numbers of periodicals, aiming at greater consistency and clearness. Entire consistency, however, is not possible in dealing with the changes, mistakes, corrections, and counter corrections of publishers in the numbering of serials. Miss Ingersoll, besides relieving Dr. White of the greater part of the clerical labor on the *Accessions Book*, has made a rearrangement of public library publications which will provide for all future growth in this department. Miss M. Fowler, assistant librarian in charge of the catalogue, reports that the work of the year has included, besides the cataloguing of the accessions to the general library and of the books added to the *Flower Veterinary Library*, the incorporation in the general card catalogue of all the uncatalogued books of the *President White Library* in French history outside of the period of the Revolution, of which there is a special printed catalogue. The catalogue of the *Dante collection* presented by Willard Fiske was completed and issued from the press in October. It forms two stately volumes of about 300 pages each, and is undoubtedly the best bibliographical manual of the literature concerning

Dante in existence. It has met with a cordial reception at the hands of Dante scholars both at home and abroad, the skill and industry of Mr. Koch and the accuracy and thoroughness of his work upon the catalogue receiving a well-earned tribute of praise from all the critics, while the publication of the catalogue has brought much honor to the Library and to the generous donor, of whose bibliographical erudition and skill this noble collection is an enduring monument.

From the White Historical Library, the librarian, Professor Burr, makes the following report: I have this year nothing so interesting to report as the continued productiveness of The Warfare of Science, with whose income Mr. White has so generously endowed the library. From this source we have received during the past academic year \$1,053 as our share of the profits of the two years preceding March, 1901. Out of this fund \$500 has been expended during the year, and nearly \$600 is now in the bank to our credit. Most of what has been spent has gone to the strengthening of the White Library in the fields of its special wealth, our most notable accretion this year coming from the \$200 entrusted to the President White traveling fellow, Mr. George M. Dutcher, for the purchase of books in France relating to the French Revolution. Mr. Dutcher made a tour through Normandy, Brittany, Anjou, and Poitou, largely on our behalf, adding greatly to our stores for the study of the Revolution in the provinces, and especially enriching our collection on the troubles in the Vendée. The Library is also much indebted to Mr. White for sundry other benefactions, and has spent as usual the stipulated fund received by it from the University.

From the detailed report of Mr. W. H. Austen, assistant librarian in charge of the reference and circulation departments the following statistics of general interest are taken. The recorded use of the various collections during the year is as follows:

#### REFERENCE AND DEPARTMENT USE

No. of volumes used in the reading room.....	98,540
No. of volumes sent to seminary rooms.....	1,816
No. of volumes sent to departments and laboratories.....	2,769

#### CIRCULATION

No. of volumes drawn by officers and graduate students....	15,244
No. of volumes drawn by undergraduates .....	3,471
No. of volumes lent to other libraries .....	105

Total recorded use.....	121,945
-------------------------	---------

In the nine years since our occupancy of the new building the recorded use of the books has grown from 47,686 to 121,945 during the year just closed, with an increase of more than 10,000 volumes over the figures for the last preceding year. At the same time the unrecorded use of the books on the open shelves of the reading room and in the seminaries has also largely increased. The total number of volumes removed from the stacks and placed on open shelves in the seminary rooms is now 5,836, and the number of volumes in like manner removed from the stacks and deposited in department and laboratory collections is now 11,466. During the year the Library has been open 304 days, and till 11 P. M. on 157 evenings, closing at 5 P. M. the other days. Cards of admission to the stacks have been issued to 53 persons, as follows: in history and political science 3, in literature and philology 5, in philosophy and education 5, in science and technology 40. The Library has borrowed from other libraries 54 volumes during the year and in return has lent 105 volumes to other libraries.

That the service of the Library is so efficiently and satisfactorily carried on by our comparatively small staff is due to the hearty interest taken in the work by the members of the staff, and to the careful methods and excellent organization maintained by the heads of the several departments of the Library, and I gladly make this acknowledgement of their faithful performance of duty.

The ventilation of the reading rooms I regret to report is still unsatisfactory. In the spring an effort was made, by heating with steam some coils in the outlet shafts, to supplement the work of the fan, and this did bring about some improvement at the time. But when at the approach of warm weather, the steam was shut off from the building a return to the old conditions took place, and for any permanent improvement some other means of increasing the circulation of air in the reading rooms must be found.

The annual record of publications made under the auspices of the University and by its officers has been prepared, under the supervision of the Librarian, by Miss Fowler, as one of the supplements of the Annual Report of the President. During the second term of the academic year I gave as heretofore the usual course of lectures on bibliography as announced in the Register.

Respectfully submitted,

GEORGE WM. HARRIS,

*Librarian.*



## APPENDIX XVI

### PUBLICATIONS 1900-1901

#### *Under the Auspices of the University*

The University records. Ser. I. No. 1, no. 2, pt. 1-2, no. 3, pt. 1-6, no. 4, pt. 1-4, Nov., 1900-May, 1901. 2m. Ithaca, N. Y., 1900-1901. 13 pts. 8°.

*Contents*:—1, 1. The president's report, 1899-1900.

2, [1] The register, 1900-1901.

2, 2. Question papers given at the examinations for admission and at the examinations for the University scholarships, 1900.

3, [1] Announcement of courses of instruction during the summer session, 1901.

3, 2. Cornell University views.

3, 3. Address on legal education, by Hon. F. M. Finch.

3, 4. Progress of forest management in the Adirondacks: New York State College of Forestry, annual report of the director, 1900.

3, 5. Announcement of the College of Law, 1901-1902.

3, 6. Proposed increase of state scholarships.

4, [1] The register, 1900-1901. [Revised ed.]

4, 2. Opening of the Medical College: Addresses by President J. G. Schurman, Professor L. A. Stimson, Governor Theodore Roosevelt, President Seth Low.

4, 3. Announcement of the New York State Veterinary College, 1901-1902.

4, 4. Courses of instruction in the Sage School of Philosophy, 1901-1902.

Cornell studies in classical philology; edited by C. E. Bennett and G. P. Bristol. xiii.-xv. [New York], 1900-1901. 3v. 8°.

xiii. The subjunctive substantive clauses in Plautus, not including indirect questions, by C. L. Durham.

xiv. A study in case rivalry, being an investigation regarding the use of the genitive and the accusative in Latin with verbs of remembering and forgetting, by C. L. Babcock.

xv. The case-construction after the comparative in Latin, by K. P. R. Neville.

Cornell studies in Philosophy. ii.-iv. New York, 1900-1901. 3v. 8°.



ii. Brahman, by H. D. Griswold.

iii. The Philosophy of Friedrich Nietzsche, by G. N. Dolson.

iv. The ethical aspect of Lotze's Metaphysics, by V. F. Moore.

The journal of physical chemistry ; edited by W. D. Bancroft and J. E. Trevor. Vol. iv., no. 7-v., no. 6, Oct., 1900-June, 1901. Ithaca, N. Y., 1900-1901. 9 nos. 8°.

The philosophical review ; edited by J. G. Schurman and J. E. Creighton. Vol. ix., no. 4-x., no. 3. July, 1900-May, 1901. New York, 1900-1901. 6 nos. 8°.

The physical review ; a journal of experimental and theoretical physics ; conducted by E. L. Nichols, E. Merritt, and F. Bedell. Vol. xi.-xii., July, 1900-June, 1901. New York, 1900-1901. 2v. 8°.

A book of designs and drawings containing specimens of work done by students in the College of Architecture, Cornell University. [Ithaca, N. Y.], 1901. 4°. pp. (9). 24 plates.

Transactions of the Association of Civil Engineers of Cornell University. Vol. ix., 1900-1901. Ithaca, N. Y., 1901. 8°. Plates and figs.

Proceedings of the Electrical Society and of the Society of Mechanical Engineers of Cornell University. Vol. viii., 1900-1901. Ithaca, N. Y., 1901. 8°.

Thirteenth annual report of the Agricultural Experiment Station. 1900. Ithaca, N. Y., 1899. [sic.] Illus.

Bulletin of the Agricultural Experiment Station. No. 183-193. Sept. 1900-June, 1901. Ithaca, N. Y., 1900-1901. 11 nos. 8°. Illus.

Cornell reading course for farmers : No. 11-15, Nov., 1900-March, 1901. Ithaca, N. Y., 1900-1901. 5 nos. 8°. Figs.

By J. Craig.

Same. Supplement. Reading course for farmers' wives. No. 1-2, Jan., April, 1901. Ithaca, N. Y., 1900-1901. 2 nos. 8°.

By M. Van Rensselaer.

Cornell nature study quarterly. No. 6-8, Oct., 1900-Jan. 1901. Ithaca, N. Y., 1900-1901. 3 nos. 8°. Figs.

Home nature study course : quiz on lesson no. 9-14, Nov., 1900-May, 1901. Ithaca, N. Y., 1900-1901. 6 nos. 8°.

By M. R. Miller.

Junior naturalist monthly. Vol. ii., no. 9-iii., no. 4, Oct., 1900-May, 1901. Ithaca, N. Y., 1900-1901. 8 nos. 8°. Figs.

U. S. Department of Agriculture, New York Section of the Climate and Crop Service of the Weather Bureau. Report. July, 1900-June, 1901. Ithaca, N. Y., 1900-1901. 12 nos. 4°.

"In co-operation with Cornell University."

— Weather-crop bulletin. Vol. [xii.], no. 11-[xiii.], no. 10, 2 July, 1900-25 June, 1901. [Ithaca, N. Y.], 1900-1901. 19 broadsides.

*By Officers*

In the present list are included the titles of books, pamphlets, and signed contributions to periodicals, transactions, etc., published by officers and fellows of the University during the period extending from July 1, 1900, to June 30, 1901, with some titles omitted in previous lists.

Albee, E. An examination of Professor Sidgwick's proof of utilitarianism. (Philosophical Review, May, 1901, vol. x., p. 251.)

— [Review of] Interpretations of poetry and religion; by G. Santayana. (*Same*, Sept., 1900, vol. ix., p. 531.)

Allen, F. Effect on the persistence of vision of exposing the eye to light of various wave-lengths. (Physical Review, Nov., 1900, vol. xi., p. 257.)

Atkinson, G. F. First studies of plant life. Boston, 1901. sm. 8°. pp. xii. + 266. *Photo-engrs.*

— Studies of American fungi; mushrooms edible, poisonous, etc.; with a chapter on recipes for cooking mushrooms, by S. T. Rorer, on the chemistry and toxicology of mushrooms, by J. F. Clark, on the structural characters of mushrooms, by H. Hasselbring; with colored plates by F. R. Rathbun. Ithaca, 1900. 8°. pp. v. + (1) + 275. *Plates and photo-engrs.*

Reviewed by the author in Science, 23 Nov., 1900, N. S. vol. xii., p. 800.

— On the homologies and probable origin of the embryo-sac. (Science, 5 April, 1901, N. S. vol. xiii., p. 530.)

Babcock, C. L. A study in case rivalry, being an investigation regarding the use of the genitive and the accusative in Latin with verbs of remembering and forgetting. New York, 1901. 8°. pp. 74. (Cornell studies in classical philology. 14.)

Bacon, G. A manual of otology. 2d ed. Philadelphia, 1900. 8°. pp. 422. 3 *plates* and 114 *figs.*

— Non-operative cases of acute inflammation of the mastoid cells. (Archives of Otology, Jan., 1901, vol. i., no. 1.)

Bailey, L. H. Botany; an elementary text for schools. New York, 1900. 8°. pp. xiv. + 355 + (1). *Frontisp.* and *photo-engrs.*

— Principles of vegetable gardening. New York, 1900. 12°. pp. x. + 458. *Illus.* (Rural science series.)

— Oswego strawberries; an account of experiment with fertilizers and records of strawberry-growing in the Oswego district.

(Bulletin of the Cornell University Agricultural Experiment Station, April, 1900, no. 189, p. 121.)

— *editor.* *Cyclopedia of American horticulture*, vol. iii. New York, 1901. 1. 8°.

— *See also* Hunn, C. E., and L. H. Bailey. The amateur's practical garden book.

Bancroft, W. D. Dissociation studies. II. (Jour. of Physical Chemistry, March, 1901, vol. v., p. 182.)

— Laboratory apparatus for decomposition voltages. (*Same*, Feb., 1901, vol. v., p. 133.)

— Reaction velocity and solubility. (Livre Jubilaire: Recueil de Travaux offerts à H. A. Lorentz [Archives Néerlandaises, 1900, sér. 2, tom. v.], p. 46.)

— Articles published by students in the Jour. of Physical Chemistry, results of work done under the supervision of W. D. Bancroft:

Vol. iv. The reaction between chloroform and potassium hydroxide, by A. P. Saunders, p. 660; Vapor-pressure relations in mixtures of two liquids, by A. E. Taylor, III., p. 675; Solvent action of vapors, by A. T. Lincoln, p. 715.

Vol. v. Two devices for circulating liquids at constant temperature, by I. H. Derby, p. 17; Minimum boiling points and vapor composition, by M. R. Ebersole, p. 239; On the toxic value of mercuric chloride and its double salts, by J. F. Clark, p. 289.

Has contributed over five hundred signed reviews to the Jour. of Physical Chemistry, the Jour. of the Amer. Chemical Soc., and Science.

Barr, J. H. Notes on the design of machine elements. Ithaca, 1901. 8°. pp. 183. 10 *plates*.

— General formulas for efficiency and proportions of riveted joints. (Sibley Jour., Oct. 1900, vol. xv., p. 15.)

— Multiple stage air compression. (*Same*, Jan., 1901, vol. xv., p. 153.)

Bedell, F. Copper saving in the joint transmission of direct and alternating currents; a paper read before the American Association for the Advancement of Science, June, 1900. (*Same*, Oct., 1901, vol. xv., p. 1.)

Also in Telephone Magazine, vol. xvi., p. 1; Electrical Review [London] vol. xlvii., p. 32; L'Electricita [Milan] vol. xix., p. 577; abstract in Electrical World 30 June, 1900.

— The sine wave in cable telegraphy [discussion]. (Transactions of the Amer. Institute of Electrical Engineers, Feb., 1901, vol. xviii., pp. 89, 98.)



**Bedell, F.** Reviews in the *Physical Review*, July, 1900-Feb. 1901, vol. xi., xii.:

Vol. xi. Electrical testing for mechanical engineers; by J. E. Young, p. 64.

Vol. xii. Discourse on the method of rightly conducting the reason and seeking truth in the sciences; by R. Descartes, p. 62.

Elementary illustrations of calculus; by A. De Morgan, p. 63.

The evolution of general ideas; by T. Ribot, p. 63.

Electric power transmission; by L. Bell, p. 63.

Polyphase electric currents and alternate-current motors; by S. P. Thompson, p. 127.

Theory and calculation of alternating current phenomena; by C. P. Steinmetz, p. 127.

Standard polyphase apparatus and systems, by M. A. Oudin, p. 127.

**Bedell, F., and A. C. Crehore.** Alternating currents; an analytical and graphical treatment for students and engineers. 4th ed. Ithaca, 1901. 8°. pp. 325. *Figs.*

**Bedell, F., editor.** The physical review. July, 1900-June, 1901.

**Bennett, C. E.** Latin lessons. Boston, 1901. 16°. pp. x. + 181.

— The *qui*-clause after *dignus*, *idoneus*, etc. (New York Latin leaflet, 11 March, 1901, vol. i., no. 20. p. 1.)

— The stipulative subjunctive in Latin. (Transactions of the Amer. Philological Assoc., 1901, vol. xxxii., p. 223.)

**Bennett, C. E., and G. P. Bristol.** The teaching of Latin and Greek in the secondary school. New York, 1901. 12°. pp. xvi. + (1) + 336. (American teachers' series. 1.)

The teaching of Latin, by C. E. Bennett, pp. 1-214.

**Bennett, C. E., editor.** Cornell studies in classical philology. Nos. xiii.-xv.

— Tacitus *De vita et moribus Agricolae et De Germania*, with introduction and notes by A. Gudeman. Boston, 1900. sm. 8°. pp. 121 + 295. *Maps.* (Allyn and Bacon's college Latin series.)

**Bentley, I. M.** Illusions. (Chicago Record-Herald, 24 June, 1901.,

— [Review of] Fact and fable in psychology; by J. Jastrow. (Philosophical Review, March, 1901, vol. x., p. 190.)

— [Review of] Le problème de la mémoire; by P. Sollier. (*Samè*, Jan., 1901, vol. x., p. 98.)

**Brauner, O. M.** History of painting: Greek, Roman, medieval and the early Renaissance in Italy. (Progress, Feb., 1901, vol. vi., p. 334.)

— History of painting: the high Renaissance in Italy, the Renaissance in other countries. (*Same*, March, 1901, vol. vi.)

**Bristol, G. P.**, *joint author*. See **Bennett, C. E.**, and **G. P. Bristol**. The teaching of Latin and Greek in the secondary school.

The teaching of Greek, by G. P. Bristol, pp. 215-336.

— *joint editor*. Cornell studies in classical philology. Nos. xiii.-xv.

**Brooks, R. C.** A bibliography of municipal problems and city conditions. 2d ed., revised and enlarged, complete to Jan. 1st, 1901. New York, 1901. 8°. pp. 346. (Municipal affairs, vol. v., no. 1.)

**Bull, C. S.** The eye defects which may cause apparent mental dullness and deficiency in children. (Transactions of the New York Academy of Medicine, 18 April, 1901.)

— Metastatic chorioiditis occurring in the course of pneumonia due to grippe. (*Same*, Ophthalmic Section, March, 1901.)

— Tuberculosis of the eye; its differential diagnosis, pathology, and treatment. (Transactions of the New York State Medical Assoc., Oct., 1900.)

Also in the New York Medical Record, 8 Dec., 1900, vol. lviii., p. 881.

— Vascular tumors of the orbit. (Transactions of the Amer. Ophthalmological Soc., July, 1900.)

Also in the New York Medical Record, 7th July, 1900, vol. lviii., p. 11.

**Burr, G. L.** The year 1000 and the antecedents of the Crusades. (Amer. Historical Review, April, 1901, vol. vi., p. 413.)

**Buxton, B. H.** Benign epithelial tumors of the skin. (Jour. of Cutaneous and Genito-Urinary Diseases, April, 1901, vol. xix., p. 161.)

— Giant cells. (*Same*, Jan., 1901, vol. xix., p. 1.)

— Tumor of the kidney arising from a suprarenal rest. (Jour. of Pathology and Bacteriology, Feb., 1901, vol. vii., p. 221.)

**Camac, C. N. B.** Cholecystitis complicating typhoid fever. (Studies in Typhoid Fever, by W. Osler and others, 1900, no. 3.)

Reprinted from Johns Hopkins Hospital Reports.

— Eight cases of aestivo autumnal malaria having their origin in New York City [with drawing by Dr. E. Dunning of the parasites found]. (Proceedings of the Pan-American Medical Congress, Havana, Feb., 1901.)

— Hospital and ward clinical laboratories [with illustrations]. (Proceedings of the Amer. Medical Assoc., July, 1900.)

Corrected reprints furnished by the writer to those wishing to consult the article.

**Carpenter, R. C.** Condensation of steam in blower systems of heating. (Transactions of the Amer. Soc. of Heating and Ventilating Engineers, 1900, vol. vi., p. 111.)

**Carpenter, R. C.** The engineer as an inventor. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-01, p. 1.)

— Holding capacity of anchors for electric wiring poles. (Sibley Jour., April, 1901, vol. xv., p. 293.)

— Investigations of a blowing fan. (Transactions of the Amer. Soc. of Heating and Ventilating Engineers, 1899, vol. v., p. 216.)

— Literature relating to blowing fans. (*Same*, p. 240.)

— Methods of testing blowing fans. (*Same*, 1900, vol. vi., p. 69.)

— Notes on steam pressure heating. (Engineering Review, April, 1901, p. 3.)

— Portland cement at Claire, Michigan. (Michigan Miner, June, 1901.)

— Proportion of hot water radiation in combination systems in hot air and hot water heating. (Engineering Review, Feb., 1901, p. 10.)

— Rating of steam in hot water boilers for heating purposes [discussion]. (Transactions of the Amer. Soc. of Heating and Ventilating Engineers, 1900, vol. vi., p. 166.)

— Study of ventilating hoods. (Engineering Review, Dec., 1900, p. 1.)

— Test of a new impulse water motor. (Sibley Jour., Jan., 1901, vol. xv., p. 167.)

— Theory of the centrifugal fan or blower. (Transactions of the Amer. Soc. of Heating and Ventilating Engineers, 1899, vol. v., p. 235.)

**Chamot, E. M.** Actinomyces mordoré.—Pigment cristallisé. (Bulletin Médical, 17 April, 1901, tom. xv., p. 346.)

— Microchemical analysis [9 articles]. (Jour. of Applied Microscopy, Aug., 1900-June, 1901, vol. iii., iv.)

— and G. Thiry. Notes on the pigment of bacillus polychromogenes, n. sp. (Botanical Gazette, Dec., 1900, vol. xxx., p. 378.)

**Chase, G. D.** Sun myths in Lithuanian folksongs. (Transactions of the Amer. Philological Assoc., 1900, vol. xxxi., p. 189.)

**Church, I. P.** Mr. Sullivan's hydraulic formula. (Engineering Record, 29 Dec., 1900, vol. xlii., p. 626.)

— [Review of] Reservoirs for irrigation, water power, and domestic water supply; by J. D. Schuyler. (Science, 10 May, 1901, N. S. vol. xiii., p. 738.)

**Cleland, H. F.** The calciferous of the Mohawk Valley. (Bulletins of Amer. Paleontology, Nov., 1900, no. 13 [vol. iii.], p. 103.)



Clinton, L. A. Experience with teosinte. (*Amer. Agriculturist*, 20 April, 1901, vol. lxvii., p. 565.)

— Farm and garden. (*Pilgrim*, June, 1901, p. 21.)

— Vetches valuable as a cover crop. (*Amer. Agriculturist*, 6 April, 1901, vol. lxvii., p. 500.)

— What the agricultural college has done for the farmer. (*Ithaca Jour.*, 25 Feb., 1901.)

— Articles in the *Country Gentleman*, July, 1900–June, 1901, vol. lxv., lxvi.:

Ensilage not keeping,—Fertilizer, feed, and forage, 12 July, pp. 560, 562; Applying barnyard manure,—Improving a "thin" field,—Wheat after corn—mixing fertilizers, 23 Aug., pp. 680, 682; Is fall plowing advisable? 25 Oct., p. 860; A ready mixed fertilizer,—The Hessian fly epidemic, 8 Nov., pp. 900, 909; Study at an agricultural college, 15 Nov., p. 920; Parallel underdraining, 22 Nov., p. 939; The mechanic entering farming, 7 March, p. 188; Clover on wheat ground—time to cut, 4 April, p. 276; A noted grower's experience, 25 April, p. 344; New process lime,—Fertilizing meadow—Early lambs,—Chimney sweating,—Early sown rape, 9 May, p. 380; Fertilizing sugar beets, 16 May, p. 400; Growing potatoes for quality, 23 May, p. 420; A trial of potato planters, 30 May, p. 440; Lessons from the rainy weather, 13 June, p. 480; How to treat non-productive soil, 20 June, p. 499.

Articles in the *National Rural*, Oct., 1900–March, 1901:

How to kill horse nettle.—Dissolving copper sulphate, 20 Oct., pp. 705, 707. Utilizing the corn crop, 15 Nov., p. 1312; Making manure, 17 Jan., p. 53; The preservation of manures, 24 Jan., p. 76; The application of farm manures, 31 Jan., p. 92; Commercial fertilizers, 7 Feb., p. 108; Buying commercial fertilizers, 14 Feb., p. 124; Using commercial fertilizers, 21 Feb., p. 140; Agricultural colleges and what they have done for the farmer, 7 March, p. 169.

Articles in the *Rural New Yorker*, July, 1900–June, 1901, vol. lviii., lix.:

Hillside slide for fruit,—Learning about evaporators,—White melitoit, or sweet clover, 7 July, pp. 463, 464; Sand vetch as a cover crop,—The hay barn, closed or open,—Oats and peas and corn in silo, 14 July, pp. 478, 491; Silage for summer feeding.—Use of the riding cultivator, 21 July, p. 495; Wheat harvesting, 28 July, p. 511; Spraying potatoes, 8 Aug., p. 558; Plowing under Canada field peas,—Cutting hay with a binder,—A one-horse riding cultivator, 25 Aug., p. 577; The spring balance in the dairy,—Curing corn for the silo,—More about sweet clover,—Fence wire for a silo, 1 Sept., pp. 591, 592,

593, 603; Dissolving copper sulphate, 20 Oct., p. 707; Laying a stone gutter,—Kerosene oil in paints,—Dishorning Dorset sheep, 3 Nov., pp. 734, 737, 747; The problem of fall plowing, 10 Nov., p. 752; A robe out of beef hide, 17 Nov., p. 769; Alfalfa as a forage crop, 24 Nov., p. 785; Silage against stone wall, 23 March, p. 213; Stone or tile drains, 6 April, p. 249; The use of fertilizers, 13 April, p. 266; A silo in northern New York, 11 May, p. 341; Planting corn by machinery, 1 June, p. 387.

Coleman, W. Internal medicine case record. New York, 1901. 8°. pp. 24.

— Acute infective endocarditis following vaccination; recovery. (Philadelphia Medical Jour., 22 Dec., 1900, vol. vi., p. 1193.)

— Acute trional intoxication. (Medical News, 28 July, 1900.)

— Double parotiditis complicating lobar pneumonia. (Philadelphia Medical Jour., 21 April, 1900, vol. v., p. 878.)

Conant, L. A. Auto-intoxication. (Reference Handbook of the Medical Sciences, edited by A. H. Buck, 1900, vol. i., p. 643.)

— A report of three cases of thoracic aneurism treated by subcutaneous injections of gelatin. (Medical News, 16 March, 1901.)

Coville, L. The arm. (Reference Handbook of the Medical Sciences, edited by A. H. Buck, 1900, vol. i., p. 451.)

— The spleen; its shape and relation to diaphragm, chest-wall, and abdominal cavity. (Transactions of the Medical Soc. of the State of New York, 1900, p. 283.)

Craig, J. Contrasts between orcharding in eastern and western New York. (Report of the Eastern New York Horticultural Society, 1901.)

— Cover crops. (Report of the Western New York Horticultural Society, 1901.)

— Fruit growing in western New York. (Report of the Pomological Soc. of the Province of Quebec, 1900-1901.)

— Teaching the farmer at home. (World's Work, 1901, vol. ii., no. 2.)

— University extension in agriculture, (Proceedings of the Assoc. of Agricultural Colleges and Experiment Stations, 1900.)

— Articles in the Cyclopedia of American horticulture, 1900, vol. iii.:

Pomology: Russian fruits, p. 1404; Quince, p. 1485.

— *editor*. Cornell reading course exchange, Country Gentleman, 1900-1901, vol. lxxv, lxxvi.

— Farmers' reading course, Rural New Yorker, 1900-1901, vol. lviii., lix.

— Horticultural department, Family Herald and Weekly Star, Montreal, 1900-1901.

— *See also* Cornell reading course for farmers. [Publications by the University].

**Crandall, C. L.** The adjustment of a transit survey as compared with that of a compass survey. (Transactions of the Amer. Soc. of Civil Engineers, June, 1901, vol. xlv., p. 453.)

— Discussion upon D. Molitor's article upon "Theory and practice of precise spirit leveling." (*Same*, p. 181.)

**Creighton, J. E.** [Review of] On Spinozistic immortality, by G. S. Fullerton. (Philosophical Review, July, 1900, vol. ix., p. 423.)

— [Review of] Philosophische Abhandlungen Christoph Sigwart gewidmet. (*Same*, Sept., 1900, vol. ix., p. 527.)

— Some new philosophical books [reviews of Ormond's Foundations of knowledge, Turner's Knowledge, belief, and certitude, Mezes's Ethics, Jastrow's Fact and fable in psychology, Shaler's Individual, MacPherson's Spencer and Spencerism, Gardiner's Jonathan Edwards, Jackson's James Martineau]. (Book Reviews, May, 1901, vol. ix., p. 149.)

— *editor.* The philosophical review. July, 1900-May, 1901.

**De Garmo, C.** Are we developing a new sisterhood? (School and Home Journal, Dec., 1900, vol. xx., p. 167.)

— Education and survival. (*Same*, June, 1901, vol. xx., p. 494.)

— The order of appeal in nature study. (*Same*, Dec., 1900, p. 181.)

— School reform. (Educational Review, Feb., 1901, vol. xxi., p. 118.)

— Women in education. (School and Home Journal, Feb., 1901, vol. xx., p. 282.)

— *annotator.* Outlines of educational doctrine, by J. F. Herbart; translated by A. F. Lange, annotated by C. De Garmo. New York, 1901. sm. 8°. pp. xi. + 334.

**Dennis, L. M., and T. Whittelsey.** Qualitative analysis; a manual for the use of students in chemistry in Cornell University. Ithaca, N. Y., 1900. 8°. pp. 107. *Tables.*

**Dennis, L. M., and O. W. Brown.** Potassium perselenate. (Jour. of the Amer. Chemical Soc., May, 1901, vol. xxiii., p. 358.)

**Duggar, B. M.** Physiological studies with reference to the germination of certain fungous spores. (Botanical Gazette, Jan., 1901, vol., xxxi., p. 29.)



Duggar, B. M. Physiology of Plants. (Cyclopedia of Amer. Horticulture, 1900, vol. ii., p. 1322.)

— Pollen. (*Same*, p. 1387.)

Durand, E. J. The classification of the fleshy pezizineae with reference to the structural characters illustrating the bases of their division into families. (Bulletin of the Torrey Botanical Club, Sept., 1900, vol. xxvii., p. 463.)

— Some further observations on *buxbaumia*. (Bryologist, April, 1901, vol. iv., p. 32.)

— Studies in North American discomycetes. I. The genus *Holwaya* Sacc. (Bulletin of the Torrey Botanical Club, June, 1901, vol. xxviii., p. 349.)

Durand, W. F. The derivation of algebraic curves for the results of experimental observations. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-1901, p. 100.)

— Electricity as a motive power for the operation of auxiliary machinery on shipboard. (*Same*, p. 51.)

— The problem of the connecting rod [2 articles]. (Sibley Jour., Feb., May, 1901, vol. xv., pp. 188, 339.)

— Reply to Nikola Tesla regarding application of electricity for marine propulsion. (Marine Engineering, July, 1900, vol. iv., p. 286.)

— Speed and power trials of ships. (Sibley Jour., April, 1901, vol. xv., p. 309.)

Durham, C. L. The subjunctive substantive clauses in Plautus not including indirect questions.—Thesis. [New York], 1901. 8°. pp. vi. + 120. (Cornell studies in classical philology. 13.)

Dutcher, G. M. Travelling in Europe, [13 letters]. (Owego Times, Aug., 1900-June, 1901.)

Edgar, J. C. The causes and significance of the obstetric hemorrhages. (New York Medical Jour., 1901, vol. lxxiii., p. 543.)

Elmer, H. C. [Review of] Prohibitives in silver Latin; by W. K. Clement. (Amer. Jour. of Philology, Jan., 1901, vol. xxii., p. 80.)

Ewing, J. Clinical pathology of the blood. Philadelphia, 1901. 8°. pp. 432.

— Syllabus of lectures on inflammation. New York, 1901. 16°. pp. 49.

— Malarial parasitology. (Jour. of Experimental Medicine, 1901, vol. v., p. 429.)

Fernow, B. E. Progress of forest management in the Adirondacks: 3d annual report of the director, New York State College of

Forestry. Ithaca, 1901. 8°. pp. 40. (Bulletin of the New York State College of Forestry, no. 3.)

University Records. 1 s. no. 3, pt. 4.

— Adirondack forestry problems. (Annual report of the New York State Commissioners of Fisheries, Game and Forests, for 1898, vol. iv., p. 354.)

— Advance in forestry legislation. (Science, 1 March, 1901, N. S. vol. xiii., p. 354.)

— Practical forestry in the Adirondacks. (Tradesman, [Chattanooga, Tenn.], 1 Jan., 1901.)

Finch, F. M. Address on legal education. Ithaca, N. Y., 1901. 8°. pp. 16. (University Records, 1 s. no. 3, pt. 3.)

Finch, W. A. The law of property in land; a syllabus. Ithaca, 1900. 8°. pp. 75.

Fish, P. A. Urinary analysis in veterinary practice. (Jour. of Comparative Medicine, Oct., 1900, vol. xxi., p. 608.)

Flint, A. Rabelais as a physiologist; reflections suggested by his description of the production and movements of the blood, in 1546. (New York Medical Jour., 29 June, 1901, vol. lxxiii., p. 1113.)

Also separately printed.

Fraenkel, J. Brain: Cerebellar disease. (Reference Handbook of the Medical Sciences, edited by A. H. Buck, 1901, vol. ii., p. 238.)

— On the prognosis of hysteria; a contribution to the question of fatal hysteria. (Medical News, 5 Jan., 1901.)

— *joint author.* Progressive ankylotic rigidity of the spine (spondylose rhizomélisque), by B. Sachs and J. Fraenkel. (Jour. of Nervous and Mental Disease, Jan., 1900, vol. xxvii., p. 1.)

Gage, S. H. Development of the lungs in the common toad (*bufo lentiginosus*) and in the tree toads *hyla Pickeringii* and *hyla versicolor*. (Proceedings of the Amer. Assoc. for the Advancement of Science, 1899, vol. xlix., p. 243.)

— Fire in the Veterinary College at Cornell. (Jour. of Applied Microscopy, Jan., 1901, vol. iv., p. 1111.)

Moses C. White; an obituary. (*Same*, p. 1109.)

Gibson, L. Heat stroke as a post operative complication. (Medical News, 8 Dec., 1900.)

— An improved method of performing suprapubic cystotomy. (Medical Record, 12 Jan., 1901, vol. lix., p. 44.)

— A study of one thousand operations for intestinal obstruction and gangrenous hernia. (Annals of Surgery, Oct., 1900, vol. xxxii.)

Gifford, J. Forestry on sandy soils. (Annual Report of the Commissioners of Fisheries, Game and Forests of the State of New York for 1898, vol. iv., p. 396.)

— The proper professional title for foresters. (Forester, June, 1901, vol. vii., p. 143.)

— Silvicultural prospects of the Island of Cuba, (*Same*, Aug., 1900, vol. vi.)

Also printed separately.

— Silviculture in relation to horticulture and agriculture. (Proceedings of the New Jersey State Horticultural Society, 1901, p. 103.)

Guerlac, O. G. Popular universities in France. (Nation, 7 March, 1901, vol. lxxii., p. 192.)

Hamilton, A. M. Some suggestions as to the treatment of locomotor ataxia based upon the experience of 30 years. (Montreal Medical Jour., Oct., 1900.)

— *joint author*. The malarial causation of cranial nerve paralysis, with case; by L. N. Morris and A. M. Hamilton. (Medicine, May, 1901.)

Hammond, W. A. [Review of] Aristoteles; by H. Fiebeck. (Philosophical Review, March, 1901, vol. x., p. 215.)

Harris, G. D. A gasoline launch for field work. (Science, 28 Dec., 1900, N. S. vol. xii., p. 1009.)

— The Louisiana Geological Survey. (New Orleans Picayune, 27 March, 1901.)

— Oil in Texas. (Science, 26 April, 1901, N. S. vol. xiii., p. 666.)

— *editor*. Bulletins of American paleontology, no. 13, Nov., 1900.

Hart, J. M. The need of new buildings: letter to President Schurman. (Alumni News, 20 Feb. 1901, vol. iii., p. 157.)

— Rhetoric in the translation of Bede. (An English miscellany presented to Dr. Furnivall. 1901. p. 150.)

Hewett, W. T., *editor*. A German reader, edited with notes and a vocabulary. New ed., revised and enlarged. New York, 1901. 8°.

— Macmillan's German classics: Schiller's Wallenstein, with introduction and notes by M. Winkler. New York, 1901. sm. 8°. pp. lxxvi. + 446.

Hibbard, H. W. Compressed air and pneumatic tools. (Proceedings of the New York Railroad Club, 21 March, 1901, vol. xi., no. 5.)



— Engineering periodicals and the card index ; a paper presented before the Cornell Society of Mechanical Engineers. (Sibley Jour., Dec., 1900, vol. xv., p. 97.)

Also in Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-01, p. 18 ; also printed separately.

— Hauling capacity of locomotives. (Proceedings of the New York Railroad Club, 17 Jan., 1901, vol. xi., no. 3.)

— Interlapping of railway civil and mechanical engineering. (Proceedings of the Central Railway Club, Buffalo, Nov., 1900, vol. vi., no. 5.)

— Six-coupled locomotives for very long passenger runs. (Proceedings of the New York Railroad Club, 15 Nov., 1900, vol. xi., no. 1.)

— Swing beam car truck. (*Same*, 18 Oct., 1900, vol. x., no. 9.)

— Very large freight cars as benefitting fast passenger traffic on curves. (*Same*, 16 May, 1901, vol. xi., no. 7.)

Hilton, W. A. Development and relations between the intestinal folds and villi of vertebrates. (Proceedings of the Amer. Assoc. for the Advancement of Science, 1900, vol. xlix., p. 233.)

— The intestine of *amia calva*. (Amer. Naturalist, Sept., 1900, vol. xxxiv., p. 717.)

Hitchcock, E., jr. The strength and perils of adult life. (Chicago Record-Herald, 16 May, 1901.)

Hoxie, G. L. Speed regulation of shunt motors by the multiple voltage system. (Sibley Jour., Dec., 1900, vol. xv., p. 110.)

— Water power and electrical transmission in Southern California. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-01, p. 62.)

— See also Ryan, H. J., and others. An introduction to the study of electrical machinery.

Huffcut, E. H. Andrew D. White and Cornell University. (Cornell Era, Nov., 1900, vol. xxxiii., p. 47.)

— Cornell University ; an historical sketch of its first thirty years, 1868-1898. (History of Higher Education in the State of New York [U. S. Education Bureau Circulars of information, 1900, no. 3], p. 318.)

— and E. H. Woodruff. American cases on contract. 2d ed. Albany, 1900. 8°. pp. xxv. + 898.

Hull, C. H. Finances in the British West Indies. (Essays in Colonial Finance [Publications of the Amer. Economic Assoc., Aug., 1900, 3d s. vol. i., no. 2], p. 168.)

— Finances of Porto Rico [discussion]. (Papers and Proceedings of the 13th annual meeting of the Amer. Economic Assoc.

[Publications of the Amer. Economic Assoc., Feb., 1901, 3d s. vol. ii., no. 1], p. 134.)

— Railway alliances and trade districts of the United States [with map]. (International Monthly, June, 1901, vol. iii., p. 703.)

— [Review of] Surveys, historic and economic; by W. J. Ashley. (Amer. Historical Review, July, 1901, vol. vi., p. 793.)

— *editor*. Papers and proceedings of the 13th annual meeting of the Amer. Economic Association, New York, 1901. 8°. pp. 303. (Amer. Economic Assoc. Publications. 3d s. vol. ii., no. 1.)

Hunn, C. E. Vegetable-growing under glass. (Transactions of the Eastern New York Horticultural Soc., 1900, vol. iv.)

— Articles in the Cyclopædia of American Horticulture, 1900, vol. ii.:

Forcing of vegetables, p. 596; Mignonette, p. 1012.

— Articles in the Herald and Star [Montreal], 1901:

Hardy borders, 8 May; Window and veranda, 15 May; Tender plants, 22 May; Geraniums, 12 June.

— and L. H. Bailey. The amateur's practical garden-book, containing the simplest directions for the growing of the commonest things about the house and garden. New York, 1900. 16°. pp. (6) + 259. *Figs.* (Garden-craft series.)

Hutchinson, J. I. On certain relations among the theta constants. (Transactions of the Amer. Mathematical Soc., Oct., 1900, vol. i., p. 391.)

— On some birational transformations of the Kummer surface into itself. (Bulletin of the Amer. Mathematical Soc., Feb., 1901, vol. vii., p. 211.)

Isaacs, A. E. A whistle in the œsophagus. (Medical Record, 16 March, 1901, vol. lix., p. 404.)

Jacoby, H. S. Minor considerations affecting the arrangement of a course of study in civil engineering. (Proceedings of the Soc. for the Promotion of Engineering Education, 1900, vol. viii., p. 223.)

— *editor*. Proceedings of the eighth annual meeting of the Society for the Promotion of Engineering Education. New York, 1900. 8°. pp. xxviii. + 377.

Jenks, J. W. The trust problem. 2d ed. New York, 1900. 8°. pp. xix. + 281. *Plates*.

— *Same*. 3d ed. New York, 1901. 8°.

— English colonial fiscal systems in the Far East. (Essays in Colonial Finance [Publications of the Amer. Economic Assoc., Aug., 1900, 3d s. vol. i., no. 3], p. 263.)

— How trusts affect prices. (*North American Review*, June, 1901, vol. clxxii., p. 906.)

— Industrial combinations. (*Bulletin of the U. S. Labor Department*, July, 1900, no. 29, p. 661.)

— The Rev. Moses Coit Tyler, A. M., LL.D. (*Michigan Alumnus*, March, 1901, p. 221.)

— The social effects of industrial combinations; abstract of lecture before the engineering societies of Cornell University. (*Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University*, 1900-01, p. 11.)

— The trusts; facts established and problems unsolved. (*Quarterly Jour. of Economics*, Nov., 1900, vol. xv., p. 46.)

— *editor*. Essays in colonial finance by members of the American Economic Association, collected and edited by a special committee. New York, 1900. 8°. pp. 303. (*Amer. Economic Assoc. Publications*, 3d s. vol. i., no. 3.)

J. W. Jenks, chairman of the committee.

Jessel, H. R. Ein Beitrag zur Kenntnis der Purinkörper.—*Inaug.-Diss.* Berlin, [1900]. 8°. pp. 47 + (3).

Johnston, J. C. A case of multiple angiosarcoma of the skin. (*Jour. of Cutaneous and Genito-Urinary Diseases*, April, 1901.)

— A case of xanthoma diabeticorum. (*Same*, Sept., 1900.)

Kemmerer, E. W. The fiscal system of Egypt. (Essays in Colonial Finance [Publications of the Amer. Economic Assoc., Aug., 1900, 3d s. vol. i., no. 3], p. 189.)

Kerr, A. J. Breast, Female. (*Reference Handbook of the Medical Sciences*, edited by A. H. Buck, 1901, vol. ii., p. 461.)

— On the preservation of anatomical material in America by means of cold storage. (*Johns Hopkins Hospital Bulletin*, April-June, 1901, no. 121-123, p. 117.)

— Preservation of anatomical material at the University of Buffalo. (*Proceedings of the Assoc. of Amer. Anatomists*, 1900, vol. xiii., p. 20.)

Kimball, D. A. Steam schooners in the Pacific coast trade. (*Marine Engineering*, June, 1901, vol. vi., p. 231.)

— Velocity diagrams. (*Sibley Jour.*, Nov., 1900, vol. xv., p. 45.)

Laumann, G. N. Economics of agriculture. (*Country Gentleman*, 20 June, 1901, vol. lxi., p. 501.)

Lee, D. C. The official athletic insignia of the Cornell University Athletic Association. [Ithaca, N. Y.], 1901. 4°. pp. 11. 31 plates.

D. C. Lee, chairman Insignia Committee.

— Oratory in colleges. (Proceedings of the Assoc. of Colleges and Preparatory Schools of the Middle States and Maryland, 1900, vol. xiv., p. 117.)

Lefevre, A. Conscience and obligation in Butler's ethical system. (Philosophical Review, July, 1900, vol. ix., p. 395.)

Loomis, H. P. Some personal observations on the effects of intrapleural injections of nitrogen gas in tuberculosis. (Medical Record, 29 Sept., 1900, vol. lviii., p. 481.)

MacGillivray, A. D. Cicadidae—American genera and species. (Canadian Entomologist, March, 1901, vol. xxxiii., p. 74.)

McGilvary, E. B. The century's progress in philosophy. (International Year Book, 1900.)

— [Review of] Democracy and empire; by F. H. Giddings. (Philosophical Review, Nov., 1900, vol. ix., p. 651.)

— [Review of] Ethics, descriptive and explanatory; by S. E. Mezes. (Same, May, 1901, vol. x., p. 298.)

— [Review of] Philosophy of history; by A. A. Lloyd. (International Jour. of Ethics, Jan., 1901, vol. xi., p. 256.)

McMahon, J. The expression for a rational polynomial in a series of Bessel functions of  $n$ th order, as required in certain cases of Dirichlet's problem. (Proceedings of the Amer. Assoc. for the Advancement of Science, 1900, vol. xlix., p. 42.)

Major, C. C. Corliss valve gear and valve setting. (Amer. Electrician, May, 1901, vol. xiii., p. 230.)

Martin, J. O. The Ontario coast between Fairhaven and Sodus Bays, New York. (Amer. Geologist, June, 1901, vol. xxvii., p. 329.)

Merritt, E. Note on the effect of a magnetic field on the Edison effect. (Bulletin of the Amer. Physical Soc., June, 1900, vol. ii., no. 1.)

— On kathode rays and some related phenomena. (Proceedings of the Amer. Assoc. for the Advancement of Science, 1900, vol. xlix., p. 49.)

Also in Science, 13, 20 July, 1900, N.S. vol. xii., pp. 41, 98.

— and O. M. Stewart. The development of kathode rays by ultraviolet light. (Physical Review, Oct., 1900, vol. xi., p. 230.)

Merritt, E., editor. The physical review, July, 1900–June, 1901.

Miller, G. A. The forty-ninth annual meeting of the American Association for the Advancement of Science. (Bulletin of the Amer. Mathematical Soc., Nov., 1900, vol. vii., p. 79.)



— In a simple group of an odd composite order every system of conjugate operators or subgroups includes more than fifty. (*Proceedings of the London Mathematical Soc.*, April, 1901, vol. xxxiii., p. 6.)

— On a special class of abelian groups. (*Annals of Mathematics*, Jan., 1901, N.S. vol. ii., p. 77.)

— On holomorphisms and primitive roots. (*Bulletin of the Amer. Mathematical Soc.*, May, 1901, 2s. vol. vii., p. 350.)

— On the concepts of group and number. (*Amer. Mathematical Monthly*, June, 1901, vol. viii., p. 131.)

— On the groups which have the same group of isomorphisms. (*Transactions of the Amer. Mathematical Soc.*, Oct., 1900, vol. i., p. 393.)

— On the product of two commutative operators. (*Amer. Mathematical Monthly*, March, 1901, vol. viii., p. 57.)

— On the total number of substitutions which transform a given substitution into itself. (*Proc. Matematyczno-fizycznych*, Feb., 1901, vol. xii., p. 20.)

— On the transitive substitution groups whose order is a power of a prime number. (*Amer. Jour. of Mathematics*, April, 1901, vol. xxiii., p. 173.)

— Report on groups of an infinite order. (*Bulletin of the Amer. Mathematical Soc.*, Dec., 1900, 2s. vol. vii., p. 121.)

— Some methods of constructing substitution groups. (*Amer. Mathematical Monthly*, Dec., 1900, vol. vii., p. 277.)

— Sur les groupes d'opérations. (*Comptes Rendus de l'Académie des Sciences*, April, 1901, tom. cxxxii., p. 912.)

— Sur plusieurs groupes simples. (*Bulletin de la Soc. Mathématique de France*, Dec., 1900, tom. xxviii., p. 266.)

— [Review of] A brief history of mathematics; authorized translation of Fink's *Geschichte der Elementar-Mathematik*, by W. W. Beman and D. E. Smith. (*Physical Review*, Aug., 1900, vol. xi., p. 192.)

— and G. W. Ling. List of intransitive substitution groups of degree eleven. (*Quarterly Jour. of Mathematics*, April, 1901, vol. xxxii., p. 342.)

Moler, G. S. Acetylene and the electrical production of calcium carbide. (*Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University*, 1900-01, p. 113.)

Moore, V. A. Laboratory directions for beginners in bacteriology. 2d ed. Boston, 1900. 8°. pp. 143.

Moore, V. A. The control of diphtheria in small cities and country districts from the bacteriological standpoint. (New York State Medical Jour., Feb., 1901, vol. i.)

Murray, D. A. An introductory course in differential equations. Revised ed. New York, 1900. 8°. pp. 236.

— Spherical trigonometry. New York, 1900. 8°. pp. 114.

Murray, F. W. The surgical treatment of amœbic dysentery. (Annals of Surgery, May, 1901, vol. xxxiii., p. 574.)

Nammack, C. E. A case of pernicious anaemia—Hunter's treatment—autopsy. (Medical Record, 4 Aug., 1900, vol. lviii., p. 193.)

— Treatment of acute sero-fibrinous pleurisy. (*Same*, 9 March, 1901, vol. lix., p. 373.)

Neville, K. P. R. The case-construction after the comparative in Latin. New York, 1901. 8°. pp. (5) + 82 + (1). (Cornell studies in classical philology. 15.)

Nichols, E. L. The acetylene flame. (Jour. of the Franklin Institute, Nov., 1900, vol. cc., p. 356.)

— Devices useful for demonstration; a paper read at the New York State Science Teachers' Assoc., Dec. 28, 1900. (School Science, April, 1901, vol. i., p. 72.)

— The electric and magnetic properties of matter at low temperature—a résumé. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-01, p. 88.)

— On a new method of calibrating thermo-electric elements for use in the measurement of high temperatures. (Livre Jubilaire: Recueil de Travaux offerts à H. A. Lorentz [Archives Néerlandaises, 1900, sér. 2, tom. v.], p. 339.)

— Preliminary note on the efficiency of the acetylene flame. (Physical Review, Oct., 1900, vol. xi., p. 126.)

Also in *Physikalische Zeitschrift*, 12 Jan., 1901, vol. ii., p. 221.

— Research work for physics teachers; a paper read before the Physics Club of New York, Dec., 1900. (Science, 8 Feb., 1901, N. S. vol. xiii., p. 202.)

— Reviews in the Physical Review Aug., 1900-May, 1901, vol. xi., xii.:

Vol. xi. Physics, experimental and theoretical; by R. H. Jude. p. 118.

A text-book on physics; by Poynting and Thompson, p. 124.

Magnetic induction in iron and steel; by J. A. Ewing, p. 126.

Ostwald's *Klassiker der exakten Wissenschaften*, no. 109, p. 126 (no. 110 in vol. xii., p. 64.)

Vol. xii. Livre jubilaire : recueil de travaux offerts à H. A. Lorentz, p. 254.

Handbuch der Spectroscopie ; von H. Kayser, p. 314.

Album di elettricisti italiani ed esteri, p. 320.

— *editor*. The physical review, July, 1900–June, 1901.

Norris, H. H. Series arc lighting from constant potential high pressure alternators. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900–1901, p. 47.)

— Storage batteries in railway power stations. (Proceedings of the New York Street Railway Assoc., Sept., 1900.)

Also in Street Railway Review, 15 Dec., 1900, vol. x., p. 733.

— [Review of] Central station electricity supply ; Gay and Yeaman. (Physical Review, Aug., 1900, vol. xi., p. 123.)

— [Review of] Management of dynamos and motors ; G. W. Lummis. (*Same*, Jan., 1901, vol. xii., p. 64.)

— *and* F. D. Newbury. Alternator excitation. (Sibley Jour., March, 1901, vol. xv., p. 253.)

— *See also* Ryan, H. J., *and others*. An introduction to the study of electrical machinery.

Northup, C. S. Anna Perry Durand. (Cornell Alumni News, 25 June, 1901, vol. iii., p. 283.)

— The philological and archaeological congress. (Cornell Alumni News, 9 Jan., 1901, vol. iii., p. 118.)

— American literature [review of Bronson's Short history of American literature, etc.]. (School Review, Nov., 1900, vol. viii., p. 550.)

— [Review of] English literature ; by S. A. Brooke and G. R. Carpenter. (*Same*, May, 1901, vol. ix., p. 330.)

— [Review of] The poetry of the Psalms ; by H. Van Dyke. (Dial, 1 Jan., 1901, vol. xxx., p. 19.)

— Recent books for the study of English [reviews of Carpenter's Elements of rhetoric, Gardiner's Forms of prose literature, E. H. Lewis's Second manual of composition, F. W. Lewis's Inductive lessons in rhetoric, MacEwan's Essentials of the English sentence, Maxwell and Smith's Writing in English]. (Jour. of Pedagogy, June, 1901, vol. xiii. p. 385.)

— [Review of] A royal rhetorician ; by R. W. Rait. (Dial, 1 March, 1901, vol. xxx., p. 147.)

— [Review of] The story of the alphabet ; by E. Clodd. (*Same*, p. 146.)

— Theodore Parker and his times [review of Chadwick's

Theodore Parker, preacher and reformer]. (*Same*, 16 Jan., 1901, vol. xxx., p. 42.)

— Two books on English literature [review of Halleck's History of English literature, and Johnson's Outline history of English and American literature]. (*Modern Language Notes*, Dec., 1900, vol. xv., p. 250.)

Orndorff, W. R. Physiological chemistry; a laboratory guide for the use of students in medicine in Cornell University. Ithaca, 1901. 8°. pp. 69.

— [Review of] Commercial organic analysis; by A. H. Allen and H. Leffmann, vol. ii., pt. 1. (*Jour. of Physical Chemistry*, March, 1901, vol. v., p. 197.)

— [Review of] Elementary organic analysis; by F. G. Benedict. (*Same*, April, 1901, vol. v., p. 263.)

— [A more extended review of the same.] (*Science*, 17 May, 1901, N. S. vol. xiii., p. 785.)

— [Review of] A text-book of urine analysis; by J. H. Long. (*Jour. of Physical Chemistry*, May, 1901, vol. v., p. 318.)

Prescott, F. C., *editor*. Selections from the prose writings of Jonathan Swift, with notes and an introduction. New York, 1901. 16°. pp. xxxix. + 229. (English readings.)

Reed, H. D. The structure of the poison glands of *schilbeodes gyrinus*. (Proceedings of the Amer. Assoc. for the Advancement of Science, 1900, vol. xlix., p. 232.)

— A study of fishes. (*Cornell Nature Study Quarterly*, Jan., 1901, no. 8, p. 199.)

— The woodchuck. (*Amer. Country Life*, June, 1901 [trial no.].)

Reed, R. C. and A. R. Ward. Concerning the presence of streptococci in the healthy udder of a cow. (*Jour. of the Boston Soc. of Medical Sciences*, 19 Feb., 1901, vol. v., p. 386.)

Abstract of a paper read before the Soc. of Amer. Bacteriologists, Dec., 1900.

Also in *Centralblatt für Bakteriologie*, 4 April, 1901, Bd. xxix., p. 496; *Science*, 1 March, 1901, N. S. vol. xiii., p. 325.

Ries, H. Clays and shales of Michigan, their properties and uses. Lansing, 1900. 8°. pp. vi. + (2) + 67. 4 *plates* and *photogr.* (*Geological Survey of Michigan*, viii., pt. 1.)

— Clays of New York, their properties and uses. Albany, 1900. 8°. pp. 493-944. 140 *plates* and *map in pocket*. (*Bulletin of the New York State Museum*, no. 35.)

— The clays of Allegany Co., Md. (*Maryland Geological Survey Report on Allegany Co.*, 1900.)



PUBLICATIONS BY UNIVERSITY OFFICERS CXXXIII

— The limestones of New York and their economic value. (51st Annual Report of the New York State Museum, 1897, pt. 2, p. 355.)

Issued in 1899.

— Notable clay products and exhibits at the Paris Exposition. (Clayworker, Dec., 1900, vol. xxxiv., p. 433.)

— Notes on a trip from Port Jervis to Rondout. (52d Annual Report of the New York State Museum, 1898, pt. i., p. 188.)

Issued in 1900.

— Preliminary report on the clays of Alabama. (Bulletin of the Alabama Geological Survey, 1900, no. 6, p. 220.)

— Articles in the International Year Book for 1900 :

Abrasives, Aluminum, Antimony, Asbestos, Asphaltum, Barites, Bauxite, Borax, Building Stone, Chromic Iron Ore, Clay, Coal, Copper, Diamond, Fossil Botany, Fuller's Earth, Geological Surveys, Geology, Graphite, Gold, Gypsum, Iron, Magnesite, Manganese, Marble, Meteorology, Metallurgy, Metamorphism, Mica, Mineralogy, Mineral Paints, Mineral Waters, Mining, Monazite, Nickel, Ochre, Ore Deposits, Palæontology, Petrography, Petroleum, Phosphates, Platinum, Pyrite, Salt, Shale, Sulphur, Talc.

— Reviews in the Geologisches Centralblatt, April-May, 1901, vol. i.:

Metasomatic processes in fissure veins ; by W. Lindgren, p. 194.

The enrichment of mineral veins by later metallic sulphides ; by W. H. Weed, p. 195.

The production of mineral paints and barytes in 1899 ; by E. W. Parker, p. 200.

Mineral resources of Kansas for 1899 ; by E. Haworth, p. 200.

Oklahoma building stone ; by C. N. Gould, p. 200.

A contribution to the natural history of marl ; by C. A. Davis, p. 201.

Preliminary report on the copper bearing rocks of Douglas County, Wis. ; by U. S. Grant, p. 228.

Preliminary report on the Cape Nome gold region ; by A. H. Brooks and F. C. Schrader, p. 228.

The telluride ores of Cripple Creek and Kalgoorlie ; by J. A. Rickard, p. 229.

Report on the Warrior coal basin ; by H. McCalley, p. 230.

A remarkable marl lake ; by C. A. Davis, p. 243.

Talc and pyrophyllite deposits of North Carolina ; by J. H. Pratt, p. 263.

Geology of Dubuque Co., Ia. ; by S. Calvin and H. F. Bain, p. 277.

Riley, W. A. Arrangement of serial sections. (*Jour. of Applied Microscopy*, Nov., 1900, vol. iii., p. 1058.)

— *Rosellinia ovalis* (Ell) Sac. (*Torreyea*, Feb., 1901, vol. i., p. 22.)

Roberts, I. P. An average dairy. (*Rural New Yorker*, 16 March, 1901, vol. lx., p. 185.)

— A farmhouse fireplace. (*Farm and Home*, 15 Jan., 1901, p. 40.)

— Potato. (*Cyclopedia of Amer. Horticulture*, 1901, vol. iii., p. 1417.)

— Report of the director of the Agricultural Experiment Station. (*Annual Report of the Agricultural Experiment Station*, 1900, vol. xiii., p. 5.)

— Report of the director of the College of Agriculture. (*Annual Report of the President of Cornell University*, 1899-1900, p. 110.)

— The silo. (*Rural New Yorker*, 16 March, 1901, vol. lx., p. 185.)

— University extension methods for the promotion of agricultural knowledge. (*Proceedings of the Soc. for the Promotion of Agricultural Knowledge*, 1900, vol. xxi.)

— The world's debt to the dairy cow. (*Breeder's Gazette*, 19 Dec., 1900, vol. xxxviii., p. 956.)

— Articles in the *Country Gentleman*. Aug., 1900-May, 1901, vol. lxxv., lxvi.:

Building a silo—crops after corn, 9 Aug., p. 640; Making a manure shed, 18 Oct., p. 848; The value of muck as manure, 25 Oct., p. 859; Nurse crops for grass,—Cistern, 17 Jan., p. 46; Grass—Wheat—Osage hedge, 14 Feb., p. 124; Fertilizer for wheat, 21 Feb., p. 144; Buying yearlings, 14 March, p. 218; Cultivating a worn-out pasture, 21 March, p. 232; The failure of clover, 28 March, p. 253; Constituents of wheat and oats, 4 April, p. 276; Raising pigs profitably, 2 May, p. 368; Improving a barn plan,—Two-horse corn planters, 9 May, pp. 380, 388; Improving poor land, 16 May, p. 399.

Rogers, J., jr. Tracheotomy. (*Medical Record*, 27 April, 1901, vol. lix., p. 641.)

Ryan, H. J. The three phase alternators of the Metropolitan Street Railway Company of New York. (*Sibley Jour.*, Feb., 1901, vol. xv., p. 175.)

— The transformer for measuring large direct currents. (*Transactions of the Amer. Institute of Electrical Engineers*, April, 1901, vol. xviii., p. 265.)

Also in *Sibley Jour.*, May, 1901, vol. xv., p. 351.

— The young engineer's training. (Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University, 1900-01, p. 40.)

— *and others.* An introduction to the study of electrical machinery; by H. J. Ryan, H. H. Norris, and G. L. Hoxie. Ithaca, 1900. 8°. pp. 132.

Schmidt, N. Letter of acceptance of aldermanic nomination. Ithaca, 1901. 8°. pp. 8.

Also in Ithaca Daily Jour., 1 March, 1901.

— The Book of Jeremiah. (New World, Dec., 1900, vol. ix., p. 655.)

— The comparative method in theology. (Independent, 24 Jan., 1901, vol. liii., p. 191.)

— The Hebrew philosophers: The philosopher as an allegorist—Philo. (Coming Age, July, 1900, vol. iv., p. 44.)

Also printed separately.

— The Hebrew philosophers: The philosopher as a mystic—John. (*Same*, Aug., 1900, vol. iv., p. 116.)

— Jeremiah. (Encyclopædia Biblica, 1901, vol. ii., c. 2366.)

— Jeremiah (Book.) (*Same*, c. 2372.)

— The Paris Congress of the History of Religions. (Biblical World, Dec., 1900, vol. xvi., p. 447.)

— Political ideals of the Bible. I.: The Old Testament. (Proceedings of the New York State Conference of Religion, Nov., 1900, p. 66.)

— Religious education in the public schools. (*Same*, Nov., 1900, p. 144.)

— The "Son of Man" in the Book of Daniel. (Jour. of Biblical Literature, 1900, vol. xix., pt. I., p. 22.)

— [Review of] Deuteronomium; erklärt von A. Bertholet. (Amer. Jour. of Theology, Jan., 1901, vol. v., p. 136.)

— [Review of] The Hastings Bible dictionary, vol. iii., Archaeology and Natural history. (*Same*, April, 1901, vol. v., p. 293.)

— [Review of] Die Massorah der östlichen und westlichen Syrer in ihren Angaben zum Propheten Jesaia; von G. Dietrich. (*Same*, Jan., 1901, vol. v., p. 130.)

— Popular word about the Bible [review of About the Bible, a collection of extracts from Biblical scholars, by C. L. Hammond]. (Unity, 28 March, 1901, vol. xlvii., p. 60.)

Schultze, O. H. Legal status of the cadaver. (Reference Handbook of the Medical Sciences edited by A. H. Buck, 1900, vol. i., p. 533.)

Schultze, O. H. Medico-legal relations of autopsies. (*Same*, p. 658.)

— Reports to the New York Pathological Society, published in the *Medical Record*, 1901, vol. lix.:

Spontaneous rupture of the spleen in malaria,—Hemorrhagic pancreatitis with fat necrosis,—Peripancreatic fat necrosis with rupture of the right hepatic duct,—Cystic tumor of the stomach, 19 Jan., p. 116; Congenital absence of the right kidney, 16 Feb., p. 273; Ruptured aneurism of the basilar artery,—Sacculated aneurism of the middle cerebral artery, 16 March, pp. 434, 435; Aneurisms of the aorta, 27 April, p. 676; Thrombosis of the inferior vena cava, 25 May, p. 834.

Schurman, J. G. Cornell University: 8th annual report of President Schurman, 1899-1900; with appendices. Ithaca, N. Y., 1900. 8°. pp. 200. (University Records I s. no. 1.)

— Address at the opening of the Medical College. (University Records, May, 1901, I s. no. 4, pt. 2, p. 1.)

— The Philippines. (*Collier's Weekly*.)

— [Review of] James Martineau; by A. W. Jackson. (*Philosophical Review*, March, 1901, vol. x., p. 105.)

Sharp, C. H. Eine neue Methode zur Dickenbestimmung dünner Blättchen. (*Annalen der Physik*, 1900, Bd. iii., p. 210.)

— The photometric equipment at Cornell University. (*Sibley Jour.*, April, 1901, vol. xv., p. 305.)

— Universalstativ für Glühlampen-photometrie. (*Zeitschrift für Instrumentenkunde*, Aug., 1900, 20<sup>er</sup> Jahrg., p. 225.)

— *Same*, *English*. A universal lamp support for the photometry of glow lamps. (*Physical Review*, Sept., 1900, vol. xi., p. 181.)

Shears, G. P. A case of puerperal sepsis from retained lochia (lochiometra) with remarks. (*Medical News*, 2 Feb., 1901, vol. lxxviii., p. 171.)

Also printed separately.

— Superstitions of the nursery. (*Nursery*, Jan., 1901, vol. ii., p. 3.)

Slingerland, M. V. Borers and their work. (*Tree Breeder*, Jan., 1901, vol. I.)

— The common European praying mantis; a new beneficial insect in America. (*Bulletin of the Cornell University Agricultural Experiment Station*, Nov., 1900, no. 185, p. 35.)

— Further experiments against the peach-tree borer. (*Same*, June, 1901, no. 192, p. 193.)

— A glance into the past and future, and some of the insect



episodes of 1900; report as chairman of the Committee on Entomology. (Proceedings of the Western New York Horticultural Society, 1901, vol. xlv., p. 68.)

— The grape root-worm, a new grape pest in New York. (Bulletin of the Cornell University Agricultural Experiment Station, Nov., 1900, no. 184, p. 21.)

— How to combat the principal enemies of the fruit-grower. (Tree Breeder, March, 1901, vol. i.)

— New injurious insects and remedies. (Proceedings of the Eastern New York Horticultural Soc., 1900, vol. iv., p. 55.)

— Notes on injurious insects: answers to correspondents [25 articles]. (Rural New Yorker, 7 July, 1900–29 June, 1901, vol. lix., lx.; Waverly Free Press, 28 July, 1900, vol. xxxiii., p. 1.)

— The palmer-worm. (Bulletin of the Cornell University Agricultural Experiment Station, Jan., 1901, no. 187, p. 81.)

— Possibilities of injuries to young orchards by 17-year locusts. (Tree Breeder, Oct., 1900, vol. i., p. 6.)

— Report of the entomologist. (Annual Report of the Cornell University Agricultural Experiment Station, 1900, vol. xiii., p. xii.)

— Three unusual strawberry pests and a greenhouse pest. (Bulletin of the Cornell University Agricultural Experiment Station, May, 1901, no. 190, p. 143.)

— Articles in the Rural New Yorker, Aug., 1900–May, 1901, vol. lix., lx.:

A new strawberry pest: ground-beetles that love fruit, 4 Aug., p. 526; Insects that eat potato-beetles, 11 Aug., p. 542; The destructive Hessian fly, 25 Aug., p. 573; Bisulphide of carbon and strawberries, 15 Sept., p. 624; Crude petroleum for San José scale, 3 Nov., p. 733; Do bees injure fruit? 10 Nov., p. 749; A new Hessian fly problem, 8 Dec., p. 814; A wonderful and interesting insect, 22 Dec., p. 846; A lantern moth-trap, 19 Jan., p. 8; Parasites of tent-caterpillars, 25 May, p. 371.

Snyder, V. On a special form of annular surfaces. (Amer. Jour. of Mathematics, April, 1901, vol. xxiii., p. 166.)

— On a system of plane curves having factorable parallels. (Bulletin of the Amer. Mathematical Soc., April, 1901, 2s. vol. vii., p. 299.)

— On some invariant scrolls in collineations which leave a group of five points invariant. (Amer. Jour. of Mathematics, July, 1900, vol. xxii., p. 253.)

The three preceding papers were read before the Amer. Mathematical Soc.

Snyder, V. [Review of] *Einleitung in die Theorie der Bessel'schen Funktionen*; von J. H. Graf und E. Gubler. (Bulletin of the Amer. Mathematical Soc., May, 1901, 28. vol. vii., p. 354.)

Stewart, O. M. Becquerel rays, a résumé. (Physical Review, Sept., 1900, vol. xi., p. 155.)

— See also Merritt, E., and O. M., Stewart. The development of kathode rays by ultraviolet light.

Stimson, L. A. Address at the opening of the Medical College. (University Records, May, 1901, 18. no. 4, pt. 2, p. 4.)

Stone, J. L. Circular of instruction concerning field experiments with fertilizers. [Ithaca, N. Y., 1901.] 8°. pp. 8. *Figs.*

— Circular concerning co-operative experiments in potato culture. Revised ed. [Ithaca, N. Y., 1900.] 8°. pp. 8. *Figs.*

— Tillage experiments with potatoes. (Bulletin of the Cornell University Agricultural Experiment Station, June, 1901, no. 191, p. 168.)

Stroud, B. B. A new apparatus for demonstrating the circulation of the blood. (Science, 22 Feb., 1901, N. S. vol. xiii., p. 292.)

Stubenrauch, A. V. Articles in the Cyclopedia of American horticulture, 1901, vol. iii.:

Olive, p. 1127; *Pilocarpus*, p. 1337; *Pimelea*, p. 1338; *Platycodon*, p. 1370; Plum in California, p. 1375.

Tanner, J. H., and J. Allen. An elementary course in analytic geometry. New York, 1900. 8°. pp. 418.

6th, 7th and 8th editions have appeared.

Tarr, R. S. Syllabus of a course on the geography of North America. Ithaca, 1900. 8°. pp. 8.

— The fishing industry of New England. (Bulletin of the Amer. Bureau of Geography, 1901, vol. ii., p. 44.)

— Glaciation of Mt. Katahdin, Maine. (Bulletin of the Geological Soc. of America, June, 1900, vol. xi., p. 433.)

— Physiographic notes. (Bulletin of the Amer. Geographical Soc., 1900-1901, vol. xxxii., pp. 239, 341, 441, xxxiii., p. 58.)

— and F. M. McMurry. Europe and other continents, with review of North America. New York, 1901. sm. 8°. pp. xx. + 574. *Maps and figs.* (Tarr and McMurry Geographies. 3.)

Tarr, R. S., *associate editor*. Bulletin of the American Bureau of Geography, July, 1900-June, 1901.

— Bulletin of the American Geographical Society, July, 1900-June, 1901.

Thompson, W. G. A text-book of practical medicine. Philadelphia, [1900]. 8°. pp. 1011. 79 *figs.*

Thurston, R. H. New editions of the following works have appeared :

A manual of the steam engine, vol. i., 5th ed.

Materials of engineering, vol. iii., 4th ed.

— Amateurism and mental inertia in public service. (*Science*, 12 April, 1901, N. S. vol. xiii., p. 594.)

— American electricians in London. (*Science*, 2 Nov., 1900, N. S. vol. xii., p. 689.)

— Automobiles. (*Horseless Age*, 1900.)

— Benjamin F. Isherwood, engineer-in-chief of the U. S. Navy, 1861-1869 ; a biographical sketch. (*Cassier's Magazine*, Aug., 1900, vol. xviii., p. 344.)

— A century's progress of the steam engine. (*Annual Report of the Smithsonian Institution*, 1899, p. 591.)

— The citizen, his schools, his industries, his life. (*Proceedings of the New York Science Teachers' Assoc.*, 1900.)

Also in *Sibley Jour.*, Feb., 1901, vol. xv., p. 207.

— Coming of the automobile. (*Collier's Weekly*, June, 1901, p. 740.)

— Contemporary thermodynamic efficiencies. (*Science*, 5 April, 1901, N. S. vol. xiii., p. 552.)

— Dividends on college parchments. (*Saturday Evening Post*, 24 Nov., 1900.)

— Elementary graphics and geometry of thermodynamics [2 articles]. (*Jour. of the Franklin Institute*, Jan., Feb., 1901, vol. cli., pp. 62, 124.)

— Frictional effect of railway trains on the air. (*Science*, 18 Jan., 1901, N. S. vol. xiii., p. 115.)

— The future of motor-machines. (*Youth's Companion*, 7 Feb., 1901.)

— La laboratoire moderne et son évolution actuelle en Amérique. (*Congrès International de Mécanique Appliquée*, Paris, 1900.)

— The law of substance. (*Popular Science Monthly*, March, 1900, vol. lviii., p. 467.)

— The lightest automobile. (*Automobile*, 1900, p. 111.)

— Machines à vapeur combinés. (*Bulletin des Sciences de l'Université de Liège*, June, 1900, p. 460.)

— The modern Archimedes. (*Proceedings of the Electrical Soc. and of the Soc. of Mechanical Engineers of Cornell University*, 1900-01, p. 80.)

— The naval steam engine—its graphics and economics illus-

trated. III., IV. (Marine Engineering, July, Aug., 1900, vol. v., pp. 296, 325.)

— The organization and conduct of professional schools. (Report of the Commissioner of Education for 1898-1899, vol. i., p. 494.)

— Progress and tendency of mechanical engineering in the century; address before the Washington Academy of Science [2 articles]. (Popular Science Monthly, May, June, 1901, vol. lix., pp. 34, 141.)

— Recherches sur la résistance des matériaux enregistrée autographiquement au moyen de la machine à pendule. (Congrès International de Mécanique Appliquée, Paris, 1900, p. 16.)

— Report of the committee of experts appointed to consider the pneumatic transmission of mails, Philadelphia, Dec. 20, 1900. (Report of the Postmaster-General to Congress relative to the investigation of pneumatic-tube systems for the transmission of mail, 1901, p. 13.)

R. H. Thurston member of the committee.

— Science and industrial competition. (Science, 19 April, 1901, N. S. vol. xiii., p. 631.)

— Standard Scotch boiler. (Boiler Maker, Oct., 1900, p. 9.)

— Statistical graphics: progress of Sibley College during 30 years. (Sibley Jour., March, 1901, vol. xv., p. 247.)

— The steam engine of to-day. (Electrical World, 5 Jan., 1901, p. 26.)

— The steam turbine: the steam engine of maximum simplicity and of highest thermal efficiency. (Scientific Amer. Supplement, 12 Jan., 1901, vol. li., p. 20927.)

Abstract in Engineering [London], 18 Jan., 1901, vol. lxxi., p. 70; Economist, Jan., 1901, p. 21.

— The steel industry of the United States. (Youth's Companion, 1900.)

— The University of Birmingham. (Science, 24 Aug., 1900. N. S. vol. xii., p. 315.)

— Voting machines. (Providence Jour., 25 Nov., 1900.)

Reviews in Science, Sept., 1900-May, 1901, N. S. vol. xii., xiii.:

Vol. xii. Report of competitive tests of street car brakes by the Board of Railroad Commissioners of the State of New York, p. 444.

An inquiry into the conditions relating to the water-supply of New York by the Merchants' Association of New York, p. 565.

Vol. xiii. American education and what shall it be? Preliminary report of the Committee of the Society for the Promotion of



Engineering Education made at the New York meeting, July 2, 3, 1900, p. 68.

Title of the Report : " American industrial education—what shall it be?"

Annual report of the chief of the Bureau of Steam Engineering of the U. S. Navy Department, 1900, p. 224.

Report of the U. S. commissioner of patents to Congress for 1900, p. 503.

The steam-engine problem ; by S. H. Barraclough, p. 619.

Annual reports of the War Department : Report of the chief of ordnance, p. 740.

Titchener, E. B. Experimental psychology ; a manual of laboratory practice. Vol. i., pt. 1, 2. New York, 1901. 2v. 8°.

*Contents* :—1. Qualitative experiments : 1. Students' manual.—2. Instructor's manual.

— A primer of psychology. 3d ed. New York, 1900. 8°. pp. xvi. + 314.

— The psychological laboratory of Cornell University. Worcester, Mass., 1900. 8°. pp. 16.

— The equipment of a psychological laboratory. (*Amer. Jour. of Psychology*, Jan., 1900, vol. xi., p. 251.)

— Recent advance in psychology. (*International Monthly*, Aug., 1900, vol. ii., p. 154.)

— Structural and functional psychology. (*Philosophical Review*, May, 1899, vol. viii., p. 290.)

— Zur Kritik der Wundt'schen Gefühlslehre. (*Zeitschrift für Psychologie*, March, 1899, vol. xix., p. 321.)

— *American editor*. *Mind*, a quarterly review of psychology and philosophy, July, 1899–April, 1901.

— *associate editor*. *The American journal of psychology*, July, 1899–April, 1901.

— *editor*. Cornell University psychological bulletins :

xxvii. The memory image and its qualitative fidelity ; by I. M. Bentley. (*Amer. Jour. of Psychology*, Oct., 1899, vol. xi., p. 1.)

xxviii. The psychology of Hobbes and its sources ; by V. F. Moore. (*Same*, p. 49.)

xxix. Romanes' idea of mental development ; by M. H. Carter. (*Same*, p. 101.)

xxx. Fluctuations of the attention to musical tones ; by H. O. Cook. (*Same*, p. 119.)

xxxi. Visual reading, a study in mental imagery ; by W. B. Secor. (*Same*, Jan., 1900, vol. xi., p. 335.)

xxxii. Two cases of synæsthesia ; by G. M. Whipple. (*Same*, April, 1900, vol. xi., p. 377.)

- xxxiii. The synthetic experiment ; by I. M. Bentley. (*Same*, p. 405.)
- xxxiv. The apperception of the spoken sentence, a study in the psychology of language ; by W. C. Bagley. (*Same*, Oct., 1900, vol. xii., p. 80.)
- xxxv. The necessity for a new standpoint in sleep theories ; by H. H. Foster. (*Same*, Jan. 1901, vol. xii., p. 145.)
- xxxvi. A colour illusion ; by M. F. McClure. (*Same*, p. 178.)
- xxxvii. The perception of visual form ; by L. Hempstead. (*Same*, p. 185.)
- xxxviii. A method of mapping the retinal circulation by projection ; by R. M. Ogden. (*Same*, April, 1901, vol. xii., p. 282.)
- Trevor, J. E. Note on the fundamental equations of multiple points. (Jour. of Physical Chemistry, April, 1901, vol. v., p. 259.)
- Relationships between thermodynamic fundamental functions. (*Same*, Oct., 1900, vol. iv., p. 570.)
- Reviews in the Jour. of Physical Chemistry, Oct., 1900-Feb., 1901, vol. iv., v.:
- vol. iv. Sur l'équilibre des systèmes chimiques ; par P. Saurel, p. 619.
- Théorie générale des dissolutions ; par J. J. van Laar, p. 619.
- Recherches sur les gaz ; par A. Leduc, p. 620.
- Textbooks of general chemistry, p. 620.
- The grammar of science ; by K. Pearson, p. 623.
- La mathématique ; par C. A. Laisant, p. 623.
- Discourse on method ; by R. Descartes, p. 624.
- The evolution of general ideas ; by T. Ribot, p. 624.
- The elements of calculus ; by J. W. A. Young and C. E. Linebarger, p. 624.
- A brief history of mathematics ; translation of K. Fink's Geschichte der Elementar-Mathematik, p. 625.
- Elements of the differential calculus ; by J. McMahon and V. Snyder, p. 625.
- Scientific papers of Baron Rayleigh, p. 625.
- A textbook of physics ; by W. Watson, p. 626.
- Le phénomène de Zeeman ; par A. Cotton, p. 626.
- Grundzüge der kinetischen Naturlehre, von Baron N. Dellingshausen, p. 626.
- Les décharges électriques dans les gaz ; par J. J. Thomson, p. 693.
- Kurzer Abriss der Elektrizität ; von L. Graetz, p. 693.
- Die Fortschritte der Physik, 1899, p. 732.
- vol. v. The elements of physics ; by H. Crew, p. 71.

Contribution à l'étude des déformations permanentes; par É. Lenoble, p. 73.

Démonstration du principe de l'équivalence; par G. Mouret, p. 73.

Die Continuität des gasförmigen und flüssigen Zustandes; von J. D. van der Waals, p. 141.

Lehrbuch der Differential- und Integralrechnung; von H. A. Lorentz, p. 142.

Scientific memoirs, no. 8-10, p. 143.

Ostwald's Klassiker der exakten Wissenschaften, no. 110, 114, 115, 118, p. 143.

An elementary treatise on dynamics; by B. Williamson and F. A. Tarleton, p. 144.

The principles of mechanics; by F. Slate, pt. 1., p. 144.

An introduction to modern scientific chemistry; by Dr. Lassar-Cohn, translated by M. M. Pattison Muir, p. 145.

Annuaire pour l'an 1901 publié par le Bureau des Longitudes, p. 145.

Ueber die Entwicklung der exakten Naturwissenschaften im 19. Jahrhundert; by J. H. Van't Hoff, p. 145.

Turner, B. B. Ueber die Dielektrizitätskonstanten reiner Flüssigkeiten.—Inaug.-Diss. Leipzig, 1900. 8°. pp. 80 + (1). Figs.

— *Same*, *abridged*. (Zeitschrift für Physikalische Chemie, 1900, Bd. xxxv., p. 385.)

Tyler, C. M. Knighthood; an address delivered before the St. Augustine Commandery of Knight Templars. Ithaca, N. Y., 1900. 8°.

— Professor Moses Coit Tyler. (Era, Feb., 1901, vol. xxxiii., p. 157.)

Ward, A. R. Bacillus lactis viscosus, a cause of ropiness in milk and cream. (Jour. of the Boston Soc. of Medical Sciences, 19 Feb., 1901, vol. v., p. 386.)

Abstract of a paper read before the Soc. of Amer. Bacteriologists, Dec., 1900. Also in Centralblatt für Bakteriologie, 4 April, 1901, Bd. xxix., p. 495; Science 1 March, 1901, N. S. vol. xiii., p. 324.

— The invasion of the udder by bacteria. (Bulletin of the Cornell University Agricultural Experiment Station, Jan., 1900, no. 178, p. 267.)

— The persistence of bacteria in the milk ducts of the cow's udder. (Transactions of the Amer. Microscopical Soc., 1898, vol. xx., p. 57.)

Also in the Jour. of Applied Microscopy, Jan., 1898, vol. i., p. 205.

— Ropiness in milk and cream. (Bulletin of the Cornell

University Agricultural Experiment Station, March, 1899, no. 165, p. 393.)

— *joint author*. An inquiry concerning the source of gas and taint producing bacteria in cheese curd, by V. A. Moore and A. R. Ward. (Bulletin of the Cornell University Agricultural Experiment Station, Jan., 1899, no. 158, p. 221.)

— *translator*. Experiments in treating infectious mammitis in the cow. (Amer. Veterinary Review, April, 1901, vol. xxv., p. 9.)

From the German of E. Zschokke.

— *See also* Reed, R. C., and A. R. Ward. Concerning the presence of streptococci in the healthy udder of a cow.

Ward, G. G. Palpation of the uterine appendages. (Post-Graduate, March, 1891, vol. xvi., no. 3.)

— The prevention of post-operative adhesions of the peritoneum. (Amer. Jour. of Obstetrics, June, 1901, vol. xliii., p. 753.)

Washburn, M. F. [Review of] Essai sur l'imagination créatrice ; par T. Ribot. (Philosophical Review, March, 1901, vol. x., p. 197.)

— *translator*. Ethics, by W. Wundt. Vol. iii. The principles of morality and the departments of the moral life. New York, 1901. 8°. pp. xii. + 308.

Whitbeck, R. H. A geography of New York State. New York, 1901. 12°. pp. 108.

Whittelsey, T. [Review of] Qualitative analysis for secondary schools ; by C. W. Irish. (Science, 1 June, 1900, N. S. vol. xi., p. 862.)

— *See also* Dennis, L. M., and T. Whittelsey. Qualitative analysis.

Wiegand, K. M. The development of the embryo-sac in some monocotyledonous plants. (Botanical Gazette, 25 July, 1900, vol. xxx., p. 25.)

— *Juncus tenuis* Willd. and some of its North American allies. (Bulletin of the Torrey Botanical Club, Oct., 1900, vol. xxvii., p. 511.)

— Plain embryo-sacs. (Science, Aug., 1900, N. S. vol. xii., p. 347.)

— Some notes on saxifraga and primula. (Bulletin of the Torrey Botanical Club, July, 1900, vol. xxvii., p. 388.)

— Articles in the Cyclopedia of American horticulture, 1900-1901 :

Vol. ii. *Juncus*, p. 847 ; *Lysimachia*, p. 961 ; *Muehlenbeckia*, p. 1036 ; *Musa*, p. 1037 ; *Myosotis*, p. 1052.

Vol. iii. *Naumburgia*, p. 1062 ; *Panicularia*, p. 1202 ; *Potentilla*, p. 1440.

— [Review of] Microscopy and micro-technique ; by A.



Schneider. (Jour. of Applied Microscopy, March, 1900, vol. iii., p. 808.)

Wilder, B. G. Brain. (Reference Handbook of the Medical Sciences edited by A. H. Buck, 1900, vol. i.)

Anatomy of the brain, pp. 136-217, figs. 663-806. Methods of removing, preserving, dissecting, and drawing, pp. 369-389, figs. 978-992.

— Further tabulations and interpretations of the paroccipital fissures [abstract]. (Proceedings of the Assoc. of Amer. Anatomists, 1900, vol. xiii., p. 14.)

— Revised interpretation of the central fissures of the educated suicide's brain exhibited to the [American Neurological] Association in 1894 [abstract]. (Jour. of Nervous and Mental disease, Oct., 1900, vol. xxvii., p. 537.)

— Revised schema of the cerebral fissures [abstract]. (Proceedings of the Assoc. of Amer. Anatomists, 1900, vol. xiii., p. 18.)

Willcox, W. F. American census methods. (Forum, Sept., 1900, vol. xxx., p. 109.)

— The census of New York City. (Evening Post [New York], 24 Aug., 1900.)

— A difficulty with American census-taking. (Quarterly Jour. of Economics, Aug., 1900, vol. xiv., p. 459.)

— *joint author.* War Department, Office Director Census of Cuba. Report on the census of Cuba, 1899. Washington, 1900. 8°. pp. 786.

— War Department, Office Director Census of Porto Rico, 1899. Report on the census of Porto Rico. Washington, 1900. 8°. pp. 417.

Williams, G. S. Experiments on the flow of water in the six-foot steel and wood pipe line of the Pioneer Electric Power Company. (Transactions of the Amer. Soc. of Civil Engineers, Dec., 1900, vol. xliv., p. 61.)

— On the flow of water over dams. (*Same*, p. 316.)

— A study in hydraulics. (Jour. of the Assoc. of Engineering Societies, March, 1901, vol. xxvi., p. 169.)

— *and others.* Experiments at Detroit on the effect of curvature upon the flow of water in pipes; by G. S. Williams, C. W. Hubbell and G. H. Fenkell. (Proceedings of the Amer. Soc. of Civil Engineers, May, 1901, vol. xxvii., p. 314.)

Williams, W. L. Abscess between the liver and diaphragm, with rupture into the lung and discharge of pus through trachea. (Amer. Veterinary Review, April, 1901, vol. xxv., p. 34.)

Williams, W. L. Abscess of liver with rupture into right lung. (*Same*, p. 33.)

— Choke in a horse with remarks on handling of choke. (*Same*, May, 1901, vol. xxv., p. 116.)

— Labor, rest, and confinement. (Proceedings of the Amer. Veterinary Assoc., 1900, p. 82.)

— Mammitis. (Amer. Veterinary Review, Feb., 1901, vol. xxi., p. 806.)

— Metastatic abscess of bronchial lymphatics. (*Same*, April, 1901, vol. xxv., p. 36.)

— *joint author.* A course in surgical operations, by W. Pfeiffer and W. L. Williams. London, 1900. 8°. pp. 84. 42 *figs.*

Wilson, V. T. Freehand perspective. New York, 1900. 8°. pp. xii. + 257. 139 *figs.*

Wing, H. H. Milk and its products. 3d ed., with additions. New York, 1900. sm. 8°. pp. xiii. + (1) + 311. *Figs.* (Rural science series.)

— The condition of cheese and butter factories in New York State. (Transactions of the New York State Agricultural Soc., 1899, p. 659.)

— *and* L. Anderson. Sugar beet pulp as a food for milch cows. (Bulletin of the Cornell University Agricultural Experiment Station, Sept., 1900, no. 183, p. 1.)

Woodruff, E. H. A selection of cases on the law of insurance. New York, 1900. 8°. pp. xiii. + 592.

— *See also* Huffcut, E. H., *and* E. H. Woodruff. American cases on contract.

Woolsey, G. Massage in the treatment of periarticular fractures. (Annals of Surgery, Sept., 1900, vol. xxxii.)









